AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE OF PAGES
	1 2

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
0008	09/13/05	PR-R7-05-10488	

6. ISSUED BY	CODE	7. ADMINISTERED BY (If other than Item 6)	CODE
U.S. EPA Region VII PLMG/RFMB/AAMS 901 N 5th Street Kansas City, KS 66101			

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)	(✓)	9A. AMENDMENT OF SOLICITATION NO.
PARAMETRIX, INC. 1231 FRYAR AVENUE P.O. BOX 460 Sumner, WA 98390		9B. DATED (SEE ITEM 11)
	✓	10A. MODIFICATION OF CONTRACT/ORDER NO. 68-S7-03-04 TO# 8
		10B. DATED (SEE ITEM 13) 08/25/04
CODE FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See the section, Accounting/Appropriation Data, in the attachment on Page 2.

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(✓)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	c. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) Clause B.2 Funding

E. IMPORTANT: Contractor [X] is not, [ ] is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this modification is to amend Rex Mill and Mine (008A) Statement of Work and provide incremental funding authorization in the amount of $176,874.00 to be used on Rex Mill and Mine (008A). The contractor is to prepare and submit a revised work plan by October 3, 2005. Until a revised work plan is submitted and approved by the contracting officer, contractor is only authorized to exceed current approved Rex Mill and Mine work plan by $20,000.00. Please see the following pages for additional details.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		JAMES E. PRICE	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA James E. Price (Signature of Contracting Officer)	16C. DATE SIGNED 09/16/2005

CDA Basin Mine and Mill Sites

Contract: 68-S7-03-04, Task Order: 0008, Mod: 0008 Lead PR Number: PR-R7-05-10488

Summary Information

Title:		CDA Basin Mine and Mill Sites
Period of Performance:	From:	08/25/04
	To:	06/24/06
Award Date:		08/25/04
Total Funding:		$1,046,792.80

Accounting/Appropriation Data

The following item(s) have been added:

POP	DCN	BFYS	Appr.#	Org	Program Element	Site/ Project	Cost Org	Obj Clss	Amount	P / C
Base	QLC095	05	T	0AQ0P	302DD2C	10CRRD03	C009	2505	$176,874.00	C

Funding Breakout

Acct.Info	Funding Category	Amount
FY2004 - QJC057	[M] Cost Ceiling	$160,000.00
	Total:	$160,000.00
FY2004 - QJC080	[M] Cost Ceiling	$115,000.00
	Total:	$115,000.00
FY2004 - QJC081	[M] Cost Ceiling	$50,000.00
	Total:	$50,000.00
FY2005 - QLC001	[M] Cost Ceiling	$17,258.40
	Total:	$17,258.40
FY2005 - QLC002	[M] Cost Ceiling	$14,727.00
	Total:	$14,727.00
FY2005 - QLC003	[M] Cost Ceiling	$11,338.40
	Total:	$11,338.40
FY2005 - QLC009	[M] Cost Ceiling	$75,023.00
	Total:	$75,023.00
FY2005 - QLC010	[M] Cost Ceiling	$52,521.00
	Total:	$52,521.00
FY2005 - QLC011	[M] Cost Ceiling	$26,415.00
	Total:	$26,415.00
FY2005 - QLC036	[M] Cost Ceiling	$66,801.00

Total:	$66,801.00
FY2005 - QLC037 [M] Cost Ceiling	$58,234.00
Total:	$58,234.00
FY2005 - QLC056 [M] Cost Ceiling	$40,000.00
Total:	$40,000.00
FY2005 - QLC057 [M] Cost Ceiling	$20,000.00
Total:	$20,000.00
FY2005 - QLC068 [M] Cost Ceiling	$40,843.00
Total:	$40,843.00
FY2005 - QLC069 [M] Cost Ceiling	$121,758.00
Total:	$121,758.00
FY2005 - QLC095 [M] Cost Ceiling	$176,874.00
Total:	$176,874.00

[M] - Modified
[A] - Added

Attachments

The following item(s) have been modified:

Document 008-RD-RD-102Q Cumulative Task Order Funded Amounts was modified.

The following item(s) have been added:

Attachment Name
008-RD-RD-102Q Amended Statement of Work

TO Totals

The following item(s) have been modified:

Category	POP	From	By	To
Cost Ceiling	Base Pd.	$869,918.80	$176,874.00	$1,046,792.80

TO Classification

The following changes have occurred:

The Task Order Ceiling has changed from $869,918.80 to $1,046,792.80.

008-RD-RD-102Q Cumulative Task Order Funded Amounts

Contract: 68-S7-03-04, Task Order: 0008, Mod: 0008 Lead PR Number: PR-R7-05-10488

Cumulative Task Order Funded Amounts

	REX Mill and Mine 008A	Golconda Mine 008B	Sisters Mine 008C	Totals
Funded via Basic TO	$160,000.00	$115,000.00	$50,000.00	$325,000.00
Funded via MOD 0001	$17,258.40	$14,727.00	$11,338.40	$43,323.80
Funded via MOD 0002	$75,023.00	$52,521.00	$26,415.00	$153,959.00
Funded via MOD 0003	$15,231.00	($20,176.00)	$4,945.00	$0.00
Funded via MOD 0004	$0.00	$0.00	$0.00	$0.00
Funded via MOD 0005	$0.00	$58,234.00	$66,801.00	$125,035.00
Funded via MOD 0006	$0.00	$40,000.00	$20,000.00	$60,000.00
Funded via MOD 0007	$ 0.00	$121,758.00	$40,843.00	$162,601.00
Funded via MOD 0008	$ 176,874.00	$0.00	$0.00	$176,874.00
Cumulative TO Subtotal	**$ 444,386.40**	**$382,064.00**	**$220,342.40**	**$1,046,792.80**

AES Contract - Statement of Work (amended 9/13/05)
Fund Lead Remedial Design
Mine and Mill Sites
Coeur d'Alene Basin

I. PURPOSE

The purpose of this work assignment is for the development of remedial designs at mine and mill sites within the upper Coeur d'Alene Basin. The work shall build upon existing information available at each site and result in complete designs which can be used for remedial action. The design work for each site shall proceed on a parallel track unless EPA identifies a site with a higher priority for earlier design completion. This may arise if funding for remedial action work becomes available and it is necessary to move one design along faster than another.

II. BACKGROUND

The Bunker Hill Mining and Metallurgical Complex Site (the Site) is located in northern Idaho and northeastern Washington. The Site was listed on the National Priorities List (NPL) on September 8, 1983.

The Site is divided into three (3) Operable Units (OUs): OUs 1 and 2 focus on the 21-square mile area Bunker Hill "Box" located in the areas surrounding the historic smelting operation. OU 1 focuses on the Populated Areas of the Box; OU 2 focuses on Non-Populated areas. OU 3 of the Site (the "Basin") consists of mining contaminated areas of the South Fork of the Coeur d'Alene River (the Upper Basin), the lower Coeur d'Alene River (the Lower Basin), Coeur d'Alene Lake, and the Spokane River.

Most of OU 3 is undeveloped and includes large areas of federal and state land. Developed land uses includes residential, recreational, agricultural, and light urbanization or industrialization. Human inhabitation is primarily concentrated in communities along the South Fork Coeur d'Alene River (South Fork or Upper Basin) and population centers in the cities of Coeur d'Alene and Post Falls, Idaho, and Spokane, Washington. Other Idaho communities located in OU 3 include Mullan, Wallace, Silverton, Osburn, and Harrison. The Basin is the ancestral home of the Coeur d'Alene Tribe with Tribal lands present in the Lower Basin. The Spokane Tribal lands are present along the lower Spokane River in the state of Washington.

Within the Basin, historic mining practices, beginning in the late 1800s, have resulted in widespread contamination. The contamination threatens both human health and the environment. The contaminants are primarily metals, and the metals considered of principal concern include lead and arsenic for protection of human health, and lead, cadmium, and zinc for protection of ecological receptors. The affected media are soil, sediment, surface water, and groundwater.

Until 1968, most tailings were discharged directly into the South Fork or its tributaries. An estimated 62 million tons of tailings were discharged to streams prior to 1968. These tailings contained an estimated 880,000 tons of lead and more than 720,000 tons of zinc. Most of the tailings were transported downstream, particularly during high flow events, and deposited as lenses of tailings or as tailing/sediment mixtures in the beds, banks, and floodplains and lateral lakes of the Upper and Lower Basin and in Coeur d'Alene Lake. Some fine-grained

material washed through the lake and was deposited as sediment within the Spokane River flood channel. The estimated total mass and extent of impacted materials (primarily sediments) exceeds 100 million tons dispersed over thousands of acres. Leaching and erosion of tailings-impacted sediments is primary source of metals in surface water. Direct exposure to metals in sediments is a source of risk for human and ecological receptors, including recreational users, subsistence users, migrating waterfowl and plants.

The OU 3 ROD includes $250 million worth of ecological remediation in the Upper and Lower Coeur d'Alene Basin over the next 30 years. Much of this work will require remedial design and planning which has not been conducted since the ROD was signed on September 12, 2002. For FY 2004, EPA identified several source areas for remediation where there is a potential human health exposure to contaminants in soil from recreational use of these area. Work at these areas will also provide some ecological protection.

Upper Basin source areas in the South Fork and its tributaries (e.g., Nine Mile Creek and Pine Creek) require action to reduce exposure to recreational users from contaminated surface soils. These areas are currently popular areas for use by dirt bike/All-Terrain-Vehicle (ATV) riders. Site conditions at the source areas pose a risk to users due to inhalation of contaminants of concern and incidental ingestion of soils. The target source areas are also adjacent to surface waters and provide an ongoing source of contaminants to surface and ground water. Provision of needed source control, particularly under high-flow (flood) conditions, is also a remedial action objective under the OU 3 ROD.

Operable Unit 3 Subareas within this SOW

These three subareas were prioritized for cleanup by the Basin Environmental Project Improvement Commission because of frequent recreational usage resulting in human exposure and, in the case of Rex Mine because of instability which could result in additional significant releases.

Rex Mine

This subarea is located in the East Fork of the Ninemile Creek watershed approximately seven miles north of Wallace, Idaho. The mill facility was originally constructed in the early 1940s. The tailings pile is composed of fine-grained, ground rock materials that are remnant after the removal of minerals during the heavy media separation and floatation extraction process that was carried on within the mill complex. The tailings pile completely fills the small drainage with which it is associated thus impounding the small creek that previously occupied the drainage. Water emerges from the pile contaminated with dissolved and suspended metallic constituents, primarily zinc, cadmium, and lead. **Recent information collected by the BLM indicates that the tailings dam may be unstable.** Failure of this dam could result in major impacts to Nine Mile Creek which has already undergone extensive cleanup work by the Silver Valley Natural Resource Trustees.

The surface area of the larger mass of tailings materials is approximately 500 feet by 300 feet. The surface area of the second portion of the tailings is 350 feet by 150 feet. The Mill site covers approximately 6.5 acres

Portions of the subarea are managed by the BLM and portions are on private property. Current use of the subarea is recreational use, such as with ATVs, as it is easily accessible by road. Future use is expected to remain the same. There is one private residence located adjacent to the site.

In 1995 the state conducted a site review and study to evaluate options for remediation of the Rex Mill Mine site. In 1998 the state took action to divert water around the mill tailings. This action has had limited success and a significant amount of water still flows through the tailings creating an unstable situation. In November 2000 the BLM conducted a geotechnical investigation of the tailings to evaluate the stability of the tailings pile and make recommendations to prevent the recharging of water into the tailings pile. The State of Idaho and Bureau of Land Management (BLM) have been monitoring seepage at the Rex Mill site for several years. The remedial design for the Rex Mill is approximately 60% complete.

The purpose of this action is to eliminate human and environmental exposure to contaminants of concern (arsenic, cadmium, lead, and zinc) and to reduce the mobility of these contaminants and their subsequent impacts to Rex Creek and the Nine Mile Creek drainage, and, to the extent practical, enhance the stability of the tailings impoundment by diverting perennial stream flows around the impoundment and by limiting infiltration by establishing positive drainage. The diversion and ditch system are intended to minimize water sources that flow into and over the old tailings impoundment.

Another objective of the project is to reduce surface run-on and infiltration to and through the waste sources located at the subarea by minimizing infiltration from Rex Creek and stormwater. Work required to achieve this objective includes removing, consolidating or regrading a total of approximately 51,000 cubic yards of material.

The work also includes construction of a diversion channel, surface water run-on/runoff control ditches, an adit discharge collection and diversion system, installation of culverts, and construction of a new site access road.

The work required under this SOW includes evaluation of previously collected site data and design documents created by the State. EPA and other stakeholders provided a number of comment on these design documents that should also be reviewed. The existing design should be updated based on current site information and modified as necessary to address previous comments in order to prepare a final design.

Golconda

This subarea includes a small tailings impoundment (estimated volume of tailings is 6,000 cubic yards) as well as stream bank tailings and contaminated soils (total estimated volume is 17,000 cubic yards). The stream bank tailings are within and adjacent to the South Fork of the Coeur d'Alene River and are subject to ongoing erosion. **High concentrations of arsenic** have been measured at the surface in the tailings in the impoundment (>20,000ppm). This site is easily accessed and frequently used for recreational purposes and has been used in the past for the annual Wallace ATV Jamboree. It is also adjacent to the Trail of the Coeur d'Alenes, a 70 mile trail along the old Union Pacific Railroad (UPRR) right-of-way. The majority of this subarea is on private property.

To date no actions have been taken at this site.

Actions for this subarea are primarily designed to prevent direct human contact with metals (arsenic, cadmium, lead, and zinc) and include regrading to consolidate contaminated soils and move material back from the streambank (or dispose of in a local repository), capping with a low permeability cap, and revegetating the consolidated tailings pile. Actions will have the added benefit of preventing further erosion and release of contaminants into the South Fork of the Coeur d'Alene River.

The work required under this SOW includes evaluation of previously collected site data, identification and collection of additional data in order to prepare a design, and development of a final remedial design.

Sisters Mine Site

The Sisters Mine site is located in Woodland Park area, just south of Wallace in Canyon Creek. In 1921 the Sister Mining & Milling Co., Ltd. was the owner and the property was being leased out to Sister's Leasing Co. Development was ongoing until 1929 when a small shipment of ore, probably direct shipment, was made. The property has been idle since that time. In 1949 Sierra Silver Lead Mining Co. was doing surface work at the mine and in 1950 purchased the property. The property is still owned by Sierra Silver Lead Mining Co. Records indicate that approximately 472 tons of ore were produced at the mine with a grade of 40.6 ounces per ton silver, 39.9% lead, and 13.8% zinc.

The Sisters mine site currently consists of an adit that is partially collapsed and a waste rock pile, part of which has been removed over the years. The access road to the top of the waste rock and the adit area is north of the waste rock pile and connects with the Mine road.

During April of 2002, five grab samples were taken at the Sisters Mine site waste rock. The samples contained 1,390 to 8,940 mg/kg lead with an average of 6,108 mg/kg; 89 to 402 mg/kg arsenic with an average of 245 mg/kg; and 7.1 to 17.5 mg/kg cadmium with an average of 12.5 mg/kg.

The State of Idaho developed a SOW (to be provided to the contractor) for remediation of the Sisters Mine site which consists of the following action items:

Re-open the access road to the top of the waste rock pile.
Close the Mine adit.
Regrade the waste rock pile
Re-seed the disturbed areas
Install access controls

The work under this SOW should build upon the State's plan for this site and develop an independent final design that factors in the requirements of the ROD. Any other existing information should be reviewed and identification of data gaps, if any, that need to be filled prior to completion of the remedial design.

III. GENERAL

This is a fixed rate or fixed price task order requiring the Contractor to propose the most appropriate and cost-effective procedures and methodologies using accepted engineering practices and controls. Throughout the performance on this task order, the Contractor will be responsible for performing services and providing

products using the most cost-efficient mix of qualified personnel applicable to meet the needs of the task order.

The Remedial Design stage includes the development of the actual design of the selected remedy. The contractor shall furnish personnel, services, materials and equipment required to prepare detailed plans, drawings and specifications for Remedial Actions. All activities shall be in conformance with the remedy selected and set forth in the Record of Decision (ROD), the removal action selected and set forth in the Action Memorandum, the Remedial Design, or otherwise directed by EPA. The following work breakdown structure shall be used for project scoping, scheduling, technical and cost tracking and reporting.

Grey-scaled tasks are not required at this time.

IV. TASKS (changes made shown in bold)

TASK 1 PROJECT PLANNING AND SUPPORT (PP)

This task includes work efforts related to project initiation and support. Typical activities the contractor may be tasked to perform include but are not limited to:

1.1 Develop work plan and associated cost estimate (for work plan changes only).
1.2 Negotiate work plan and make necessary revisions as a result of EPA comments and/or negotiated agreements (for work plan changes only).
1.3 Perform site specific project management (monitor costs, prepare Monthly Progress Report and Invoice).

TASK 2 COMMUNITY RELATIONS (CR)

This task includes work efforts related to the update and implementation of the Community Relations Plan (CRP) for the site. When attending public meetings and open houses, contractor employees must identify themselves as employees of an EPA contractor. Typical activities the contractor may be tasked to perform include but are not limited to:

2.1 Update Community Relations Plan (CRP) as directed by EPA WAM.
2.2 Prepare fact sheets.
2.3 Prepare or update site mailing list.
2.4 Provide public meeting and/or open house support.
2.5 Implementation of other Community Relations activities as identified by the site specific Community Relations Plan or EPA.
2.6 Prepare presentation materials.

TASK 3 FIELD INVESTIGATION/DATA ACQUISITION (FI)

This task includes work efforts to acquire additional data to support Remedial Design activities. The results of this effort as well as previous studies shall be used to define contaminant levels, other physical/chemical properties, and volume. Typical activities the contractor may be tasked to perform include but are not limited to:

3.1 Environmental Survey.
3.2 Mobilization/Demobilization.
3.3 Test Boring and Monitoring Well Installation and Development.
3.4 Soil Boring, Drilling, and Testing.
3.5 Environmental Sampling.

- groundwater sampling.
- surface soil sampling.
- soil boring/permeability sampling.
- surface water and sediment sampling.
- Air monitoring.

Conduct the following additional field investigation work at the Rex site in order to support the design efforts:
Approximately 8 borings in the area of the proposed groundwater control trench alignment – these will be advanced to bedrock to determine the depth of the trench and the materials through which the trench must traverse

Approximately 8 borings across the length of TP2 to determine the thickness of the two surface soil samples of the stockpile in the mill area to determine the metals concentrations of the apparent concentrates in the stockpile

Measure groundwater elevations in existing wells at the site

Measure flow rates of surface water at 6 to 8 locations across the site

Conduct a topographic survey across the entire site to resolve issues with the existing contours which appear to be not representative of actual conditions

3.6 Physical/Chemical Testing (for treatment, handling or disposal).
3.7 Field generated waste characterization and disposal in accordance with Local, State and Federal Regulations.
3.8 Update and Revise Rex Site QAPP

- As directed by EPA Prepare a Field Sampling Plan (FSP) that describes the number, type, and location of samples and type of analyses. Reference the RI/FS FSP as much as practicable. Prepare a Quality Assurance Project Plan (QAPP) in accordance with EPA QA/R-5 (latest draft/revision). Reference RI/FS QAPP as much as practicable.

- Prepare a site specific Health and Safety Plan (HSP) that specifies employee training, protective equipment, medical surveillance requirements, standard operating procedures and a contingency plan in accordance with 29 CFR 1910.120 (l)(1) and (l)(2). Reference RI/FS HSP as much as practicable.

TASK 4 SAMPLE ANALYSIS (SN)

This task includes the analysis of environmental and waste samples. The contractor may utilize or be directed to utilize a variety of mechanisms to implement this task including: field screening using mobile facilities or field portable equipment, the Contract Laboratory Program (CLP), laboratories procured under subpool or Team subcontracts, the Regional Environmental Services Division (ESD), the Environmental Response Team (ERT) laboratory, or Regionally procured laboratories.

This task consists exclusively of performance of sample analyses and production of analytical data.

TASK 5 ANALYTICAL SUPPORT AND DATA VALIDATION (AN)

This task includes work efforts involved in scheduling, coordination, tracking, and oversight of sample analyses and validation of analytical data produced. Typical activities the contractor may be tasked to perform include but are not limited to:

5.1 Collect, prepare, and ship environmental samples in accordance with the Field Sampling Plan (FSP) (developed under Task 1). The following types of sampling may be required:

- Field screening.
- Groundwater sampling.
- Surface and subsurface soil sampling.
- Surface water and sediment sampling.
- Air monitoring and sampling.
- Biota sampling.
- Other types of media sampling and screening.

5.2 Develop Data Quality Objectives (DQO) for each sampling event; these DQOs shall be the determinative factor for assessing the success or failure of the sampling.

5.3 Request, obtain, and perform oversight of analytical services in compliance with EPA requirements.

5.4 Coordinate with the EPA Sample Management Office (SMO), the Regional Sample Control Coordinator (RSCC), and/or the Environmental Services Division (ESD) regarding analytical, data validation, and quality assurance issues.

5.5 Implement the EPA-approved laboratory quality assurance program which provides oversight of in-house and subcontracted laboratories through periodic performance evaluation sample analyses and/or on-site audits of operations and has a system of corrective actions.

5.6 Provide sample management including chain-of custody procedures, information management, sample retention, and 10-year data storage.

5.7 Perform data validation, the process by which the quality of the data, the defensibility of the data, and the chain of custody are verified. The contractor shall perform data validation in accordance with Regional guidelines.

5.8 Review data for usability for its intended purpose.

5.9 Provide reports on data validation and usability.

TASK 6 DATA EVALUATION (DE)

This task includes work efforts related to the analysis of data for incorporation into the design effort. Typical activities the contractor may be tasked to perform include but are not limited to:

6.1 Data usability evaluation/field QA/QC.
6.2 Data reduction and tabulation.
6.3 Comparison of data acquired during design with historic data.
6.4 Data trend evaluation and/or modeling and submission of Technical Memorandum.

TASK 7 TREATABILITY STUDY/PILOT TESTING (TT)

This task includes work efforts related to the conduct of laboratory screening, bench-scale and pilot-scale treatability studies of the selected remedy. Typical activities the contractor may be tasked to perform include but are not limited to:

7.1 Provide test facility and equipment.
7.2 Test and operate equipment.
7.3 Retrieve sample for testing.
7.4 Prepare Technical Memorandum.
7.5 Characterization and disposal of residuals in accordance with Local, State and Federal Regulations.

TASK 8 PRELIMINARY DESIGN (PD)

This task includes work efforts related to the preparation of the preliminary design. Specific components the contractor may be tasked to prepare include the following:

8.1 Recommended project delivery strategy and scheduling. **Develop technical memorandum summarizing data gaps at the Rex site and proposing additional field activities to address the data gaps. Develop technical memorandum that develops alternatives to address geotechnical issues at the site, including a figure depicting the scope of work and an FS-level cost estimate for each alternative.**
8.2 Preliminary construction schedule, including project phasing.
8.3 Specifications outline.
8.4 Preliminary drawings.
8.5 Basis of design report.
8.6 Preliminary cost estimate (+50 percent and -30 percent accuracy) prepared through the use of M-CACES Gold Cost Engineering System for Remedial Action (software is available from the Region) or other software as approved by the EPA Project Officer.
8.7 A detailed statement of how all Applicable or Relevant and Appropriate Requirements (ARARs), Federal and State public health and safety environmental requirements and standards will be met.
8.8 Land Acquisition/Easement Requirements.
8.9 Technical Support to EPA/State/USACE in Land Acquisition.
8.10 Conduct and/or assist in Value Engineering screening.

TASK 9 EQUIPMENT/SERVICES/UTILITIES (ES)

This task includes efforts necessary to procure long-lead equipment, services, and/or utilities identified during the preliminary design phase.

TASK 10 INTERMEDIATE DESIGN (ID)

This includes work efforts related to the preparation of the intermediate design. Specific components the contractor may be tasked to prepare include the following:

10.1 Update construction schedule.
10.2 Preliminary specifications.
10.3 Intermediate drawings.
10.4 Basis of design report.
10.5 Revised cost estimate (+30 percent and -15 percent accuracy) prepared through the use of M-CACES Gold Cost Engineering System for Remedial Action (software is available from the Region) or other software as approved by the EPA Project Officer.
10.6 If required, a revised detailed statement of how all Applicable or Relevant and Appropriate Requirements (ARARs), Federal and State public health and environmental requirements and standards will be met.
10.7 An intermediate design review/briefing for EPA.
10.8 Initiate Value Engineering (VE) study if VE screening identified potential project savings.

TASK 11 PRE-FINAL/FINAL DESIGN (FD)

This task includes work efforts related to the preparation of the Pre-final design. Specific components the contractor may be tasked to prepare include the following:

11.1 Subcontract award document.
11.2 Pre-final design specifications.
11.3 Pre-final drawings.
11.4 Basis of design report/design analysis.
11.5 Revised cost estimate (+15 percent and -10 percent accuracy) prepared through the use of M-CACES Gold Cost Engineering System for Remedial Action (software is available from the Region) or other software as approved by the EPA Project Officer.
11.6 A pre-final/final design review/briefing for EPA.
11.7 Biddability (offerability) and constructability reviews.
11.8 Revised Project Delivery Strategy.
11.9 The 100% design submittal shall include the final plans and specifications in reproducible format, final cost estimate and a schedule of the overall Remedial Action.
11.10 Report results of Value Engineering (VE) study and incorporate accepted VE recommendations into final design.

TASK 12 REUSE PLANNING (RV)

Assist in the review and evaluation of reuse plans and redevelopment plans submitted to ensure long-term protectiveness of the RD and remedy.

TASK 13 POST REMEDIAL DESIGN SUPPORT (DS)

The contractor shall solicit the procurement, evaluate offers received and inform the EPA Contracting Officer of the best qualified/cost effective offer. (Award of the contract will be part of Remedial Action work assignment.) Specific activities the contractor may be asked to perform include but are not limited to the following:

13.1 Prebid (Pre-Solicitation) Activities.

- **-Duplication and distribution of contract documents.**
- **-Advertising/soliciting of bids.**
- **-Issuing addenda.**
- **-Prebid (pre-solicitation) meetings.**
- **-Resolution of bidder (offeror) inquiries.**
- **-On-site visits.**
- **-Compilation of contract documents.**
- **-Resolicit bids/offers and repackage documents if necessary.**

13.2 PreAward Activities.

- **-Receipt of bids (offers).**
- **-Determination of responsive, responsible bidders (offerors).**
- **-Bid (offer) tabulation.**
- **-Bid (offer) analysis.**
- **-Receipt of follow-up items from lowest responsible bidder (offeror)**
- **-Review of EEO, MBE requirements, SDB subcontracting plans, etc.**
- **-Reference checks.**
- **-Request for consent from EPA.**

Before Remedial Action field activities can begin, several site specific plans shall be written to establish procedures to be followed by the contractor in performing field, laboratory and analysis work in addition to community and agency liaison activities. These plans include but are not limited to:

13.3 Site Management Plan.
13.4 Sampling and Analysis Plan.
13.5 Health and Safety Plan.
13.6 Community Relations Plan.

The existing plans developed for the Remedial Design, amended at the direction of EPA WAM, may be used if appropriate.

TASK 14 WORK ASSIGNMENT CLOSE OUT (CO)

This task includes efforts related to work assignment close out. Typical activities the contractor may be tasked to perform include but are not limited to:

14.1 Return of documents to EPA or other document repositories.
14.2 File duplication, distribution, and storage.
14.3 File archiving to meet Federal Records Center requirements.
14.4 Use of microfiche, microfilm, or other EPA-approved data storage technology (STORET).
14.5 Prepare a final cost estimate in accordance with Regional guidance or other procedures as specified in the task order.

V. PERIOD OF PERFORMANCE

Work under this task order is anticipated to be completed in two phases. The period for performance for **Phase I** is from **July 2004 to February 2005** for pre-design work. The tasks not grey-scaled above will be completed in Phase I. Additional tasks will be assigned at the end of Phase I for Phase II (design) work.

VI. PERFORMANCE/ACCEPTANCE CRITERIA

The contractor's deliverables will be reviewed by the government for acceptability. Unacceptable deliverables will be returned to the contractor with comments and directions for necessary corrections or rework which may be applicable.

Cost and Performance

Work defined under this Task Order will be completed within the established Work Plan costs and schedules.

Written material will be reviewed for the following subjective characteristics:

6. The work product submitted will reflect a good grasp and understanding of the technical issues, thorough knowledge of the subject matter and analysis of all the information and data available.

7. All written work products are to consist of high technical quality material based on sound science and good professional judgement.

8. All deliverables should be grammatically well-written with few typographical errors, and the need for revisions held to a minimum.

9. All reviews and activities shall be conducted in accordance with EPA policies and regulations.

Monitoring Technique

EPA will review technical deliverables and monthly invoices for adherence to performance standard requirements.

Contractor Incentive

Contractors performance will be assessed informally by the TOPO during the execution of the work.

A final performance assessment will be developed upon completion and will be used in the National Institute of Health's contractor evaluation system and on the task order performance evaluation.

VI. CONTACTS:

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Contracting Officer: James Price (913) 551-7239